## PATENT COOPERATION TREATY

# **PCT**

# TRANSLATION INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference  42 293.:.be		FOR FURTHER ACTION	See Form PCT/IPEA/416					
Internati	onal application No.	International filing date (day/month/yea	r) Priority date (day/month/year)					
PCT/EP2004/012796		11.11.2004	18.12.2003					
International Patent Classification (IPC) or national classification and IPC  B21B13/14, B21B37/40								
Applicati SMS	nt DEMAG AG							
1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority							
	under Article 35 and transmitted to the							
2.	This REPORT consists of a total of	5 sheets, in	acluding this cover sheet.					
3.	This report is also accompanied by A	NNEXES, comprising:						
	a. (sent to the applicant and	to the International Bureau) a total of	sheets, as follows:					
	sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).							
	sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental							
	Box.  b. (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))							
			, containing a sequence listing and/or tables					
	related thereto, in computer Section 802 of the Administ	· · · · · · · · · · · · · · · · · · ·	Supplemental Box Relating to Sequence Listing (see					
4.	This report contains indications relati	ng to the following items:						
	Box No. I Basis of the	report						
	Box No. II Priority							
	Box No. III Non-establi	shment of opinion with regard to novelty,	inventive step and industrial applicability					
	Box No. IV Lack of uni	ty of invention						
	Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement							
	Box No. VI Certain documents cited							
	Box No. VII Certain defects in the international application							
	Box No. VIII Certain observations on the international application							
Date of	submission of the demand	Date of completion	on of this report					
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Name ar	nd mailing address of the IPEA/EP	Authorized office	т					
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Facsimil	CINO.	Telephone No.						

### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/EP2004/012796

Box	No. I	I Basis of the report				
1.		h regard to the language, this report is based on the internatio cated under this item.	nal application in the language in	which it was filed, unless otherwise		
	This report is based on translations from the original language into the following language which is the language of a translation furnished for the purposes of:					
		international search (Rule 12.3 and 23.1(b))				
		publication of the international application (Rule 12.4				
	XX/;+1-	international preliminary examination (Rule 55.2 and/ h regard to the <b>elements</b> of the international application, this		shoots which have been firmighed to the		
2.	rece	riving Office in response to an invitation under Article 14 ar report):				
		the international application as originally filed/furnished				
	$\bowtie$	the description:				
		pages <u>1-12</u>		as originally filed/furnished		
		pages*	received by this Authority on			
		pages*	received by this Authority on			
	$\boxtimes$	the claims:				
		nos. 2,3,5-8		as originally filed/furnished		
		nos.*	as amended (togethe	r with any statement) under Article 19		
		nos.* 1,4	received by this Authority on	10.06.2005 with letter of 08.06.2005		
		nos.*	received by this Authority on			
	$\boxtimes$	the drawings:				
		sheets 1/3-3/3		as originally filed/furnished		
		sheets*				
		a sequence listing and/or any related table(s) – see Supplem				
3.		The amendments have resulted in the cancellation of:				
		the description, pages				
		the claims, nos.				
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
4.		This report has been established as if (some of) the amend they have been considered to go beyond the disclosure as fil	Iments annexed to this report and	listed below had not been made, since		
		the description, pages				
		the claims, nos.				
			the drawings, sheets/figs			
		the sequence listing (specify):				
		any table(s) related to sequence listing (specify):				
*	If ite	em 4 applies, some or all of those sheets may be marked "sup	erseded."			

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/EP2004/012796

Вох		Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement			
1.	Statement				
	Novelty (N)	Claims	1-8	YES	
		Claims		NO	
	Inventive step (IS)	Claims	1-8	YES	
		Claims		NO	
	Industrial applicability (IA)	Claims	1-8	YES	
		Claims		NO	

- 2. Citations and explanations (Rule 70.7)
  - This report makes reference to the following document:
    - **D1:** DE-A 100 37 004
  - 2. Novelty of independent claim 1:
    - D1 is regarded as the prior art closest to
      the subject matter of claim 1. It discloses a
      method according to the preamble of claim 1.

The subject matter of **claim 1** differs, according to the characterizing part of the claim, from the method known from **D1** in that every working roll has a barrel that is lengthened by the CVC displacement lift and has reverse grinding on one side in the area of the barrel edge, and when the displacement position of the displaceable working roll is predetermined as a function of the strip width, the working roll is positioned in different positions relative to the strip edge, and the displacement position of the

#### INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

working roll is predetermined within
different strip width ranges by means of a
linear trial function for each piece.

- 2.1 Therefore, the subject matter of claim 1 is
  novel (PCT Article 33(2)).
- 3. Novelty of independent claim 4:

**D1** is regarded as the prior art closest to the subject matter of **claim 4**. It discloses a method according to the preamble of **claim 4**.

The subject matter of claim 4 differs, according to its characterizing part, from the method known from D1 in that both the working and intermediate rolls each have a symmetrical barrel that is lengthened by the CVC displacement lift, overlaid with a curved roll contour having a CVC/CVC plus grind, and has a reverse grind (d) on one side.

- 3.1 Therefore, the subject matter of **claim 4** is novel (PCT Article 33(2)).
- 4. Inventive step of claims 1 and 4:

Claims 1 and 4 of the present application solve, in a non-obvious manner, the problem of covering the modes of operation of the CVC/CVC plus technology and of the technology of the strip edge-oriented displacement of

of PCT Article 6.

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement the rolls with a geometrically equivalent set of rolls for the working and intermediate rolls. Furthermore, the grind of the working rolls can have an effect directly on the roll gap, since it is transmitted not only indirectly via the intermediate roll. 4.1 Therefore, the subject matter of claims 1 and 4 involves an inventive step (PCT Article 33(3)). Claims 2 to 3 and 6 to 8 are dependent on 5. claims 1 and 4, respectively, and therefore meet the PCT requirements for novelty and inventive step. The polynomial nth degree in claim 5 leads to 6. an infinite number of possibilities. Such a definition lacks clarity within the meaning

7. The subject matter of **claims 1 to 8** is industrially applicable without a doubt (PCT Article 33(4)).